

Title (en)
DEVICE FOR DETECTING ERRORS AND/OR MEASURING WALL THICKNESS IN CONTINUOUS STRIPS OR TUBES MADE OF PLASTIC USING ULTRASONIC SIGNALS

Title (de)
EINRICHTUNG ZUR FEHLERERFASSUNG UND/ODER WANDDICKENMESSUNG BEI DURCHLAUFENDEN BÄNDERN ODER ROHREN AUS KUNSTSTOFF MIT ULTRASCHALLSIGNALEN

Title (fr)
DISPOSITIF POUR DETECTER DES ERREURS ET/OU POUR MESURER L'EPAISSEUR DE PAROIS DANS DES BANDES OU DE TUYAUX EN PLASTIQUE, AU MOYEN DE SIGNAUX ULTRASONORES

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Application
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Abstract (en)
[origin: US6443011B1] The invention relates to a device for detecting faults in and/or measuring the wall thickness of continuously moving strips, sections or tubes of plastics, using ultrasonic signals. To this end a number of ultrasonic heads (A, B, C, D) with transmitters and receivers are disposed distributed over the width of the strip or section or the periphery of the tube. The signal, emitted by a transmitter of an ultrasonic measuring head (3) and reflected without scatter, is received by the receiver of said ultrasonic measuring head (3), while the scattered signals reflected on the tube, section or the like are received by the receivers of its adjacent ultrasonic measuring heads (A, B). The inclusion of the scattered and reflected signals in the measurement appreciably increases the measured area per measurement in comparison with using exclusively the signal directly reflected without scatter.

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